TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-05-01-03** **Date: 09/12/2016**

Sample ID No : 2016-12-05-01-03

7	Final Setting time	320 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
	28 Days	54.9N/mm^2	Not less than 53 N/mm^2

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-22-01** **Date: 27/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22/12/2016
Sample ID No	:	2016-12-22-01/01 (b)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	22/12/2016
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	194	194	1.94	98.1	95-100
22.4	3098	3292	32.92	67.1	60-80
11.2	2572	5864	58.64	41.4	40-60
4.75	1609	7473	74.73	25.3	25-40
2.36	954	8427	84.27	15.7	15-30
0.6	720	9147	91.47	8.5	8-22
0.075	691	9838	98.38	1.6	0-8

Note:-

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Prepared By:
Harshitha

AE(civil)

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-22-01** **Date: 27/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22/12/2016
Sample ID No	:	2016-12-22-01/01 (a)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	22/12/2016
Oven Dry Weight(gm)	:	11200

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	199	199	1.78	98.2	95-100
22.4	3098	3297	29.44	70.6	60-80
11.2	3272	6569	58.65	41.3	40-60
4.75	1809	8378	74.80	25.2	25-40
2.36	1104	9482	84.66	15.3	15-30
0.6	720	10202	91.09	8.9	8-22
0.075	691	10893	97.26	2.7	0-8

Note:-

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Prepared By:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-12-16-01**	**Date: 20/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	16/12/2016	
Sample ID No	:	2016-12-16-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	16/12/2016	

Result:

Flakiness Index	12.6%
Elongation Index	11.2%
Combined Flakiness & Elongation Index for BC	23.8%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Yelahanka, Bangalore.

Prepared By:
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2016-12-16-01**	**Date: 20/12/2016**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	16/12/2016	
Sample ID No	:	2016-12-16-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	16/12/2016	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	309.2	308.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	64.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	242.8	244.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	21.3	20.8
6	Aggregate impact value (Mean of two tests)	Pecentage	21.1	

Note:-

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Assistant Executive Engineer,
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Prepared By:
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-16-01** **Date: 20/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16/12/2016
Sample ID No	:	2016-12-16-01/01 (a)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16/12/2016
Oven Dry Weight(gm)	:	11350

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	550	550	4.85	95.2	95-100
22.4	3720	4270	37.62	62.4	60-80
11.2	2300	6570	57.89	42.1	40-60
4.75	1715	8285	73.00	27.0	25-40
2.36	1070	9355	82.42	17.6	15-30
0.6	730	10085	88.85	11.1	8-22
0.075	980	11065	97.49	2.5	0-8

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-16-01** **Date: 20/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16/12/2016
Sample ID No	:	2016-12-16-01/01 (b)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16/12/2016
Oven Dry Weight(gm)	:	10500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	199	199	1.90	98.1	95-100
22.4	3098	3297	31.40	68.6	60-80
11.2	2950	6247	59.50	40.5	40-60
4.75	1609	7856	74.82	25.2	25-40
2.36	1054	8910	84.86	15.1	15-30
0.6	720	9630	91.71	8.3	8-22
0.075	491	10121	96.39	3.6	0-8

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-12-10-01**	**Date: 14/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-10-16	
Sample ID No	:	2016-12-10-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	12-10-16	

Result:

Flakiness Index	11.7%
Elongation Index	13.1%
Combined Flakiness & Elongation Index for BC	24.8%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Bangalore.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2016-12-10-01**	**Date: 14/12/2016**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-10-16	
Sample ID No	:	2016-12-10-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	12-10-16	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.7	305.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.6	66.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.8	238.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.4
5	Aggregate impact value	(B/A)*100	22.8	21.9
6	Aggregate impact value (Mean of two tests)	Pecentage	22.3	

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-10-01**	**Date:**	**14/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.		
Address	:	Kodigehalli sub division, BBMP, Bangalore.		
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.		
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.		
Source of Sample	:	Sample supplied by Agency		
Sample Condition	:	Satisfactory		
Date of Receipt	:	12-10-16		
Sample ID No	:	2016-12-10-01/01 (b)		
Type of Mix	:	WMM (Wet Mix Macadam)		
Date of test	:	12-10-16		
Oven Dry Weight(gm)	:	11500		

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	199	199	1.73	98.3	95-100
22.4	3098	3297	28.67	71.3	60-80
11.2	3372	6669	57.99	42.0	40-60
4.75	1809	8478	73.72	26.3	25-40
2.36	1154	9632	83.76	16.2	15-30
0.6	720	10352	90.02	10.0	8-22
0.075	691	11043	96.03	4.0	0-8

Note:-

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Assistant Executive Engineer
Kodigehalli Sub Division,
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-10-01** **Date: 14/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-16
Sample ID No	:	2016-12-10-01/01 (a)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	12-10-16
Oven Dry Weight(gm)	:	12000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	289	289	2.41	97.6	95-100
22.4	3098	3387	28.23	71.8	60-80
11.2	3165	6552	54.60	45.4	40-60
4.75	2065	8617	71.81	28.2	25-40
2.36	1287	9904	82.53	17.5	15-30
0.6	942	10846	90.38	9.6	8-22
0.075	721	11567	96.39	3.6	0-8

Note:-

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Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-12-27-01** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-2016
Sample ID No	:	2016-12-27-01-02
Customer ID	:	Drain Concrete
Sample Type /Size	:	CC Cube (150X150X150mm)
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	22/12/2016	19/01/2017	149.4 X 151.3 X 150.85	22604	8.114	512.4	22.67	22.8
2	Drain Concrete	M20	22/12/2016	19/01/2017	150.43 X 150.6 X 150.45	22655	8.165	518.6	22.89	
3	Drain Concrete	M20	22/12/2016	19/01/2017	151.2 X 150.3 X 151.2	22725	8.174	521.3	22.9	

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Prepared by
Harshitha

Assistant Executive Engineer,
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Yelahanka Zone, BBMP
Bangalore.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2016-12-27-01** **Date: 30-12-2016**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli sub division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.

Agency : Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32

Source of Sample : Sample supplied by the customer

Sample Condition : Satisfactory

Date of Receipt : 27-12-2016

Sample ID No : 2016-12-27-01-01

Customer ID : Drain Concrete

Sample Type /Size : CC Cube (150X150X150mm)

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/12/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	22/12/2016	29/12/2016	151.4 X 149.3 X 148.9	22604	8.108	354.2	15.67	16.0
2	Drain Concrete	M20	22/12/2016	29/12/2016	150.35 X 148.6 X 150.35	22342	8.15	364.6	16.32	
3	Drain Concrete	M20	22/12/2016	29/12/2016	151.8 X 151.2 X 150.2	22952	8.164	370.2	16.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-12-20-01** **Date: 12-01-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-2016
Sample ID No	:	2016-12-20-01-02
Customer ID	:	Drain Concrete
Sample Type /Size	:	CC Cube (150X150X150mm)
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/12/2016	12/01/2017	149.3 X 151.35 X 150.3	22597	8.17	504	22.30	22.7
2	Drain Concrete	M20	15/12/2016	12/01/2017	148.7 X 150.6 X 151.2	22394	8.135	512.6	22.89	
3	Drain Concrete	M20	15/12/2016	12/01/2017	150.1 X 151.34 X 150.34	22716	8.163	518.2	22.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-12-20-01** **Date: 23-12-2016**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-2016
Sample ID No	:	2016-12-20-01-01
Customer ID	:	Drain Concrete
Sample Type /Size	:	CC Cube (150X150X150mm)
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/12/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/12/2016	22/12/2016	149.35 X 148.75 X 149.49	22216	8.14	341.7	15.38	15.5
2	Drain Concrete	M20	15/12/2016	22/12/2016	150.2 X 151.2 X 149.85	22710	8.165	352.5	15.52	
3	Drain Concrete	M20	15/12/2016	22/12/2016	149.5 X 150.1 X 151.1	22440	8.09	347.4	15.5	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2016-12-05-01** **Date: 12-12-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-2016
Sample ID No	:	2016-12-05-01-02
Sample Type	:	Fine Aggregates
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	06-12-2016

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

Total weight taken: 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	66	104	10.4	89.6	60-95	75-100	85-100	95-100
4	1.18 mm	127	231	23.1	76.9	30-70	55-90	75-100	90-100
5	600 micron	111	342	34.2	65.8	15-34	35-59	60-79	80-100
6	300 micron	268	610	61	39	5-20	8-30	12-40	15-50
7	150 micron	319	929	92.9	7.1	0-10	0-10	0-10	0-15
8	Pan	71	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone III

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-12-05-01** **Date: 12-12-16**

Sample ID No : **2016-12-05-01-02**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.27%	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron	7.20%	Not more than 15 percent

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-12-05-01** **Date: 12-12-16**

Sample ID No : **2016-12-05-01-02**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.27%	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron	7.20%	Not more than 15 percent

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-12-05-01** **Date:12-12-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi Narayana Temple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample condition	:	Satisfactory
Date of Receipt	:	05-12-2016
Sample ID No	:	2016-12-05-01-01(a)
Sample Type/ Size	:	Coarse Aggregates 40mm & down Size
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	06-12-2016

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	190	190	3.8	96.2	95-100
3	20 mm	3120	3310	66.2	33.8	30-70
4	10 mm	1140	4450	89	11	10-35
5	4.75 mm	506	4956	99.12	0.88	0-5
6	Pan	44	5000	100	0	---

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, BB.M.P., Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-12-05-01** **Date:12-12-16**

Sample ID No : **2016-12-05-01-01(a)**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**12.80%**	_
2	Elongation Index(%)	**9.40%**	_
3	Specific Gravity	**2.54**	_
4	Bulk Density(Loose) (Kg/l)	**1.44Kg/l**	_
5	Bulk Density(Compacted) (Kg/l)	**1.46Kg/l**	_
6	Water Absorption(%)	**0.38%**	_

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Prepared by
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-12-05-01** **Date:12-12-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi NarayanaTemple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-2016
Sample ID No	:	2016-12-05-01-01(b)
Sample Type/ Size	:	Coarse Aggregates 20mm & down Size
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	06-12-2016

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	88	88	1.76	98.24	95-100
3	10 mm	3582	3670	73.4	26.6	25-55
4	4.75 mm	1300	4970	99.4	0.6	0-5
5	Pan	30	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-12-05-01** **Date:12-12-16**

Sample ID : **2016-12-05-01-01(b)**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.20%**	_
2	Elongation Index(%)	**10.80%**	_
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.53Kg/l**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56Kg/l**	_
6	Water Absorption(%)	**0.23%**	_
7	Ten percent fine value	**140.38**	_
8	Aggregate crushing Value(%)	**23.23%**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**19.90%**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-12-05-01**	**Date: 09-12-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Sourse of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-12-16	
Sample ID No	:	2016-12-05-01/05	
Sample Type	:	Indus, Fe500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	07-12-16	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.613	555	648	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

Note

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-12-05-01** **Date: 09-12-16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-16
Sample ID No	:	2016-12-05-01/04
Sample Type	:	Indus, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-12-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.388	538	650	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indis	Fe500	8mm	Satisfactory	Satisfactory

Note

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representantive
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

AE(Hqtrs)

End of Report

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